FIG. I

SV 40 LATE
POLYADENYLATION

BamH 1

HPV1-L1
GENE

Xho 1

VP1 INTRON

pSJ-1

pBR 322
ori

SV 40
ori

SV 40 LATE
PROMOTOR

Amp R

FIG. 2

NRS R#3 R#7 NMR 336 B6 339 B6 D5 4G10 405 D5

200 —

97 —

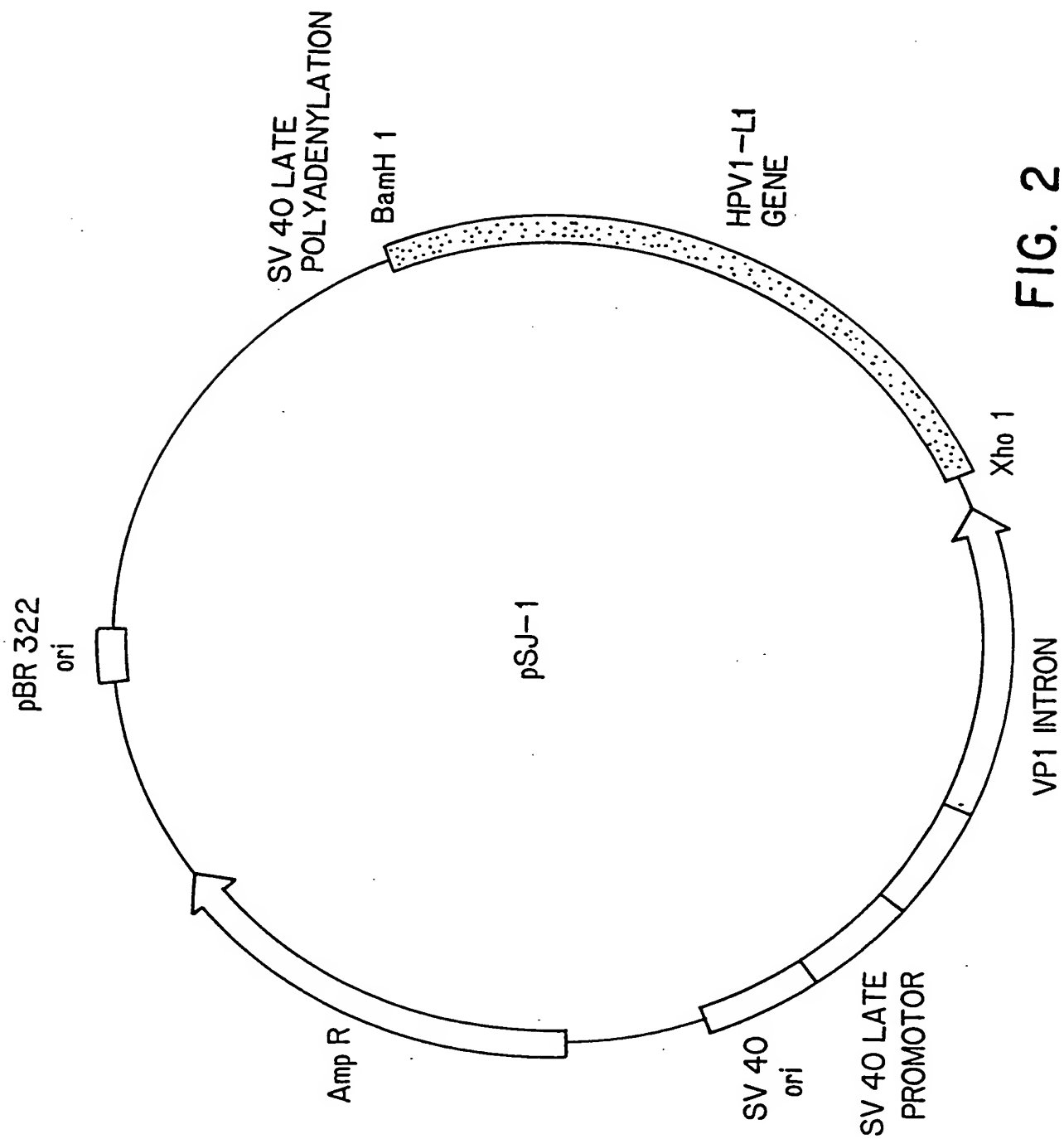68 —   ← L1 protein
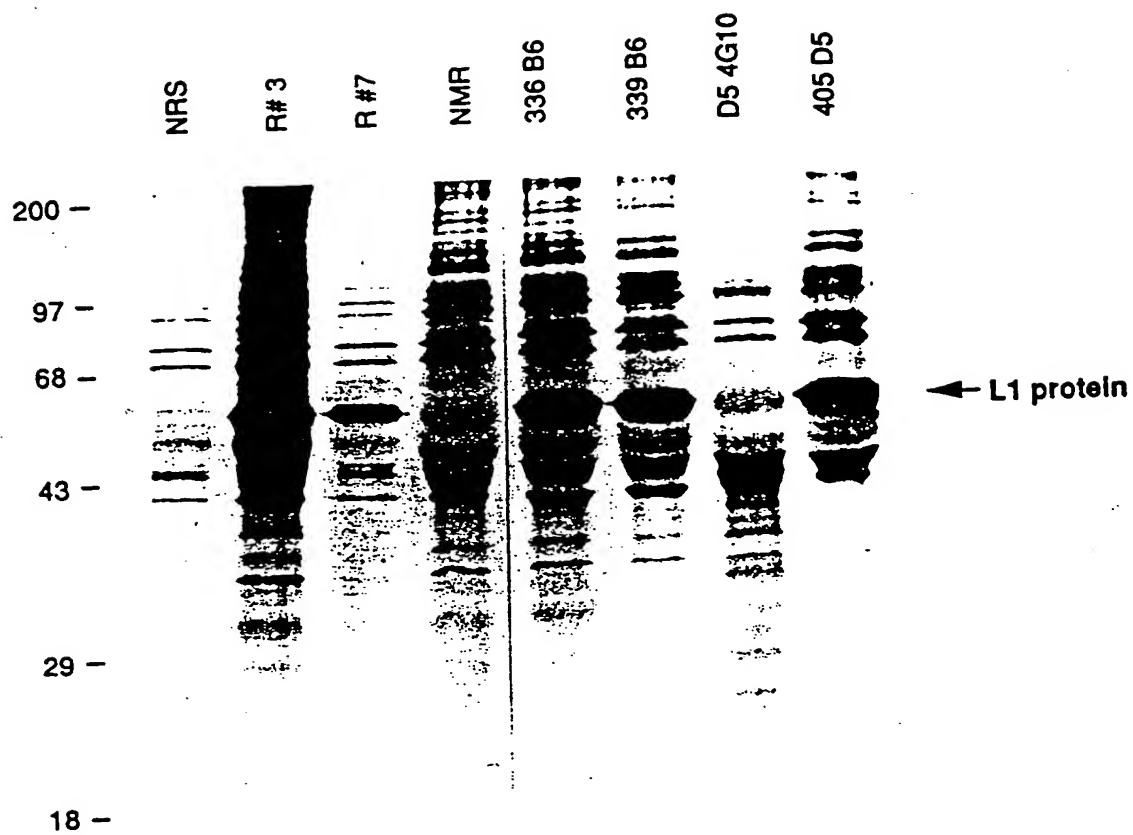
43 —

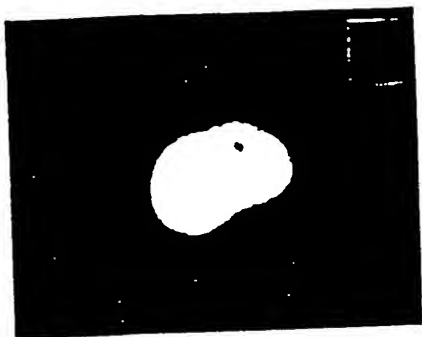29 —

18 —

FIG. 3

FIG. 4a

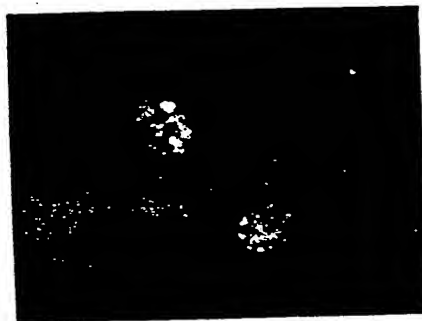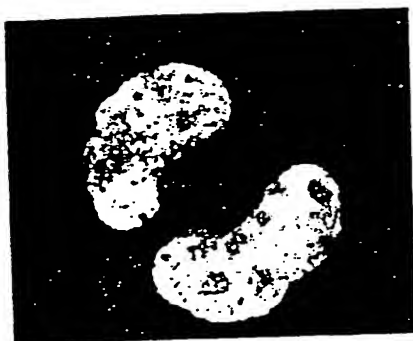FIG. 4b

FIG. 4c

FIG. 4d

FIG. 4e

FIG. 4f

FIG. 4g

FIG. 4h

FIGURE 5

PROTECTION OF DOGS AGAINST COPV
INFECTION BY THE PASSIVE TRANSFER OF IMMUNOGLOBULIN

TREATMENT PROCEDURE	Number of dogs with tumors	Number of dogs
Infused with lactate Ringers solution	4	4
Infused with non-immune dog serum, 200 mg/kg	4	4
Infused with immune dog serum, 200 mg/kg	0	4

FIGURE 6

DOG VACCINATION STUDIES UTILIZING CONFORMATIONALLY-CORRECT L1 PROTEIN PURIFIED FROM RECOMBINANT-BACULOVIRUS INFECTED Sf9 CELLS

Vaccination Procedure	#dogs with oral tumors
Buffer	6/8
Formaline-fixed wart extract	0/8
L1	0/8
L1 + alum adjuvant	0/8
L1 + QS21 adjuvant	0/8

Exp. COPV#1:L1 VLP
4/6/94: Coating Ag-isolated COPV particles. Dog sera: 1:100 dilutions of pooled (n=8) samples.
KGP 2° (anti-IgG) at 1:200. Rabbit sera at 1:500, KGP 2° at 1:1000. 30 minute reading
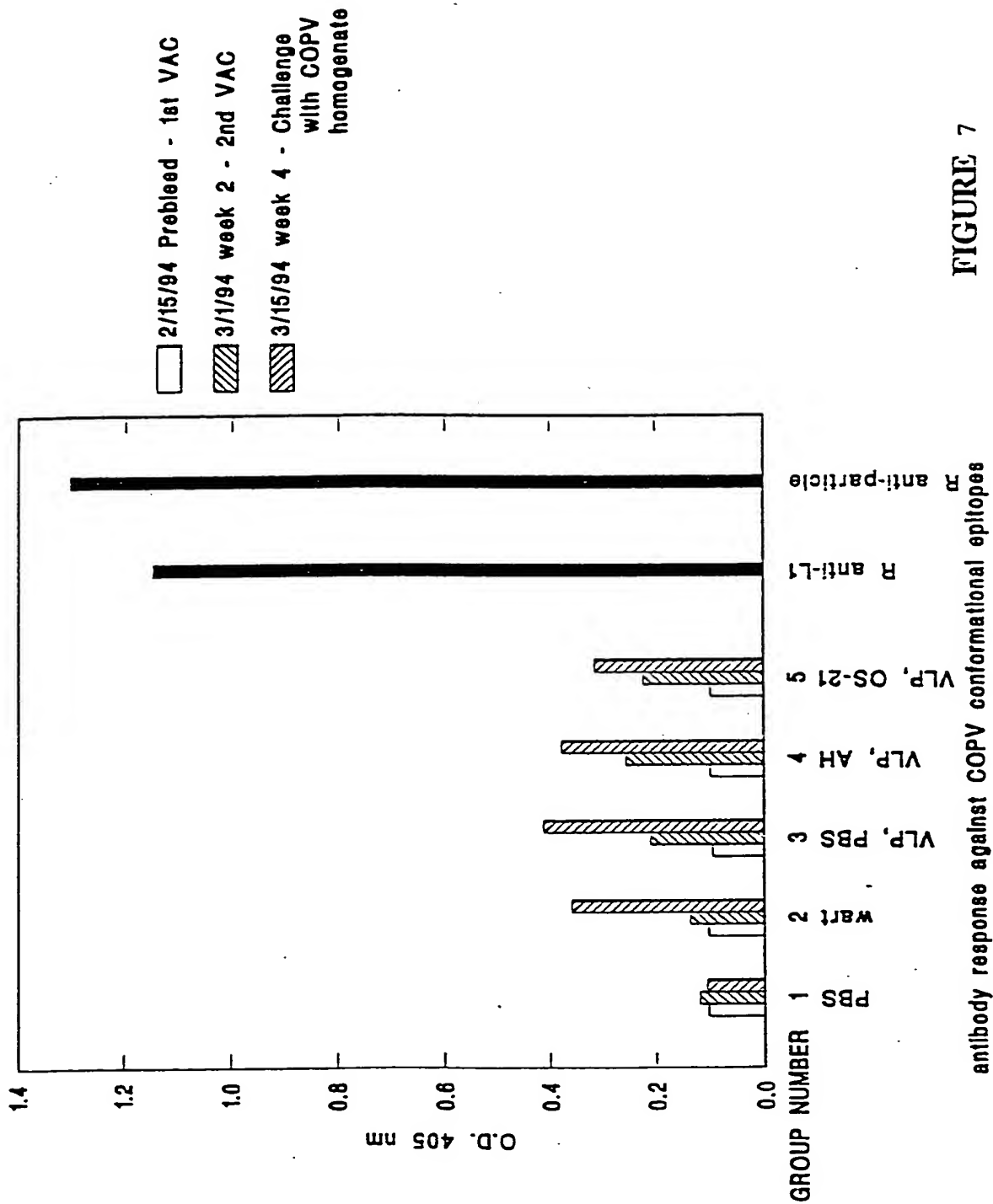Normal Rabbit serum was 0.080.

FIGURE 7

antibody response against COPV conformational epitopes

Exp. COPV#1:L1 VLP
4/6/94: Coating Ag-Recombinant L1(insoluble). Dog sera: 1:100 dilutions of pooled (n=8) samples.
Bethyl 2° (anti-IgG) at 1:500. Rabbit sera at 1:500, KGP 2° at 1:1000. 30 minute reading
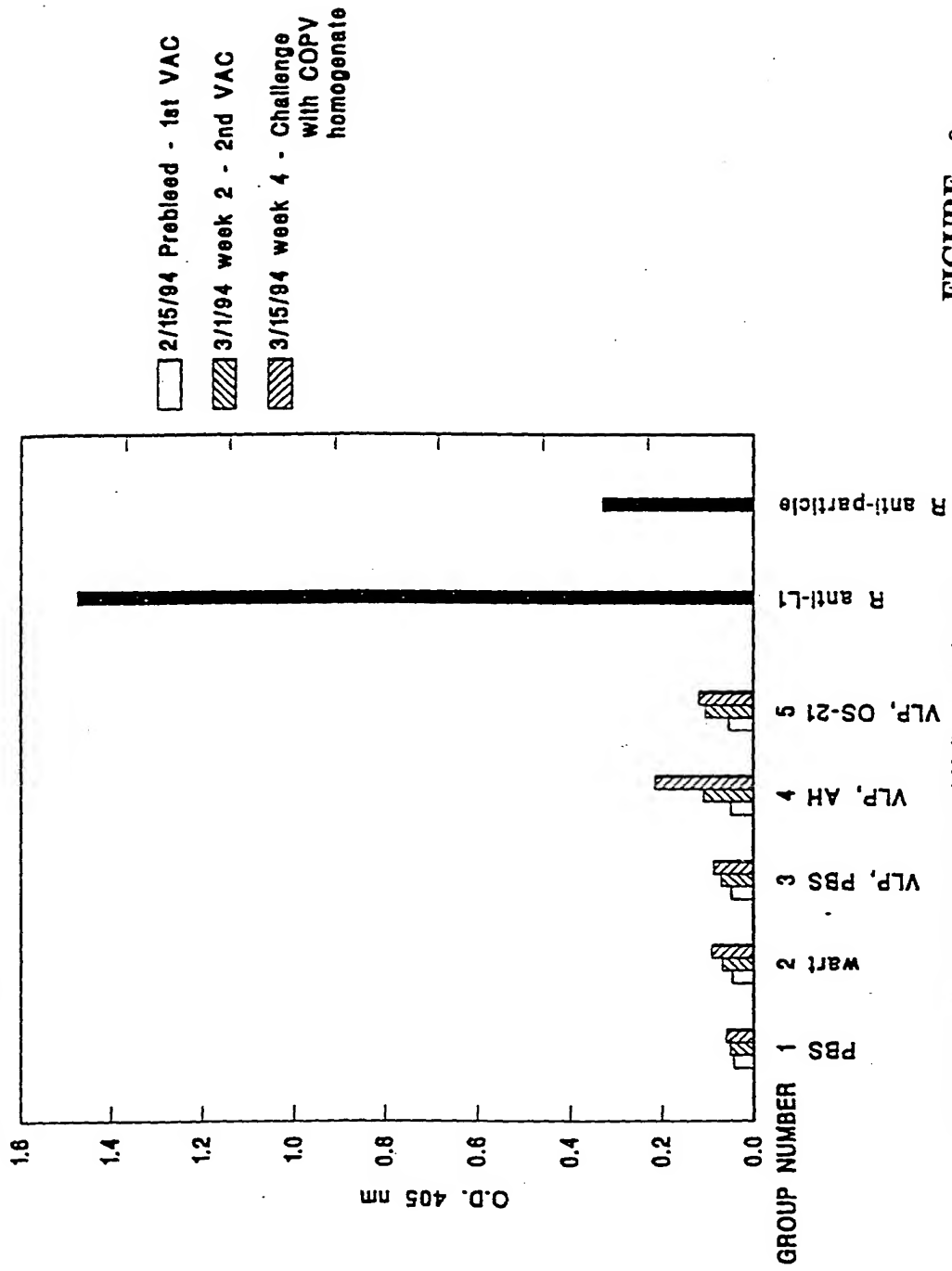Normal Rabbit serum was 0.080.

☐ 2/15/94 Prebleed - 1st VAC

▨ 3/1/94 week 2 - 2nd VAC

▨ 3/15/94 week 4 - Challenge
with COPV
homogenate

antibody response against COPV linear epitopes

FIGURE 8